United States Patent [19]

Kang et al.

[11] **4,326,052**

[45] **Apr. 20, 1982**

[54] **DEACETYLATED POLYSACCHARIDE S-60**

[75] Inventors: **Kenneth S. Kang**, LaJolla; **George T. Colegrove**; **George T. Veeder**, both of San Diego, all of Calif.

[73] Assignee: **Merck & Co., Inc.**, Rahway, N.J.

[21] Appl. No.: **178,053**

[22] Filed: **Aug. 14, 1980**

Related U.S. Application Data

[63] Continuation-in-part of Ser. No. 47,505, Jun. 8, 1979, abandoned, which is a continuation-in-part of Ser. No. 966,538, Dec. 4, 1978, abandoned.

[51] **Int. Cl.**[3] **C07H 1/00**; C07H 1/08

[52] **U.S. Cl.** ..... **536/1**; 8/561; 8/563; 71/DIG. 1; 106/205; 106/209; 260/112 R; 252/316; 252/352; 252/356; 426/573; 426/589; 426/658; 435/104; 435/243; 536/114; 536/119

[58] **Field of Search** ..... 536/1, 114; 260/112 R

[56] **References Cited**

U.S. PATENT DOCUMENTS

3,000,790	9/1961	Jeanes et al.	536/1
3,516,983	6/1970	Colegrove	536/1
4,119,491	10/1978	Wellington	536/114
4,154,822	5/1979	Polimeni et al.	536/1

FOREIGN PATENT DOCUMENTS

2396019	1/1979	France	536/1

OTHER PUBLICATIONS

Chem. Abst., vol. 86, No. 1, Jan. 3, 1977, p. 321, abstr. 3575(e).

Primary Examiner—Johnnie R. Brown
Attorney, Agent, or Firm—Gabriel Lopez; Hesna J. Pfeiffer

[57] **ABSTRACT**

Deacetylated Polysaccharide S-60, prepared by deacetylating the polysaccharide S-60 produced by fermentation of *Pseudomonas elodea*, ATCC 31461, has valuable properties in both the clarified and non-clarified form, and is useful as an agar substitute or a shapeable room deodorant.

The non-clarified deacetylated gum contains about 17% protein and principally carbohydrate, which comprises glucuronic acid (~13% based on wt. gum) and the neutral sugars rhamnose and glucose in the approximate molar ratio 3:2.

The clarified, deacetylated gum contains mostly carbohydrate and no more than about 2% protein.

4 Claims, No Drawings